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for the Advancement of Science will have the benefit of reduced railway rates, as has been previously announced. The reduced rate of a fare and a half for the round trip has been granted by the railway associations representing almost all of the United States and Canada. Those intending to go to Boston for this meeting should state to their local railway agents that they are to attend the Boston meeting of the American Association for the Advancement of Science. They should purchase a single, full fare, one-way ticket to Boston and should secure from the agent a standard certificate. A receipt is not needed. On arrival at the meeting railway certificates are to be deposited at the validation desk in the registration room at the Massachusetts Institute of Technology. A card identifying the certificate will be given out and is to be returned when the certificate is reclaimed. In the meantime, endorsement and validation of the certificates that have been deposited will be cared for. After endorsement and validation the certificate is to be presented at the railway ticket office in Boston and the agent will allow each holder of a certificate to purchase a continuous return trip ticket from Boston to the place of starting, at one half of the regular fare.

It is not necessary for those intending to go to Boston to present to the railway agent when they purchase their tickets any credentials as to membership in the association or societies. Certificates will be endorsed by the American Association for the Advancement of Science for all association members in good standing and also for members of associated societies meeting with the association in Boston, whether or not the latter are also members of the association. Any person having the right to have his certificate validated may also have certificates validated for personal guests, this being limited to members of his immediate family, not including men over twenty-one years of age. Those who have certificates for validation and are not members of the association or societies, nor delegates, nor personal guests, should become associates for the Boston meeting, if they do not care to become members. As all readers of SCIENCE know, a new member pays an en-

trance fee (\$5) and the first annual dues (\$5), while an associate pays the associate fee only (\$5). As far as the validation of railway certificates is concerned, associates are to be treated like members in good standing, and members of associated societies meeting with the association are to be treated in the same way.

SCIENTIFIC EVENTS

LOUIS PASTEUR

At the December meeting of the Syracuse chapter of Sigma Xi the following resolutions were adopted:

Whereas, On December 27, 1922, will occur the centenary of the birth of Louis Pasteur, whose life was characterized by tireless industry and preeminent achievement in research; and

Whereas, These researches conducted on lines of pure science have found remarkable application in many departments of economic and social betterment, culminating in the largest advances in measures of sanitation and consequent conservation of human life; and

Whereas, The unsparing devotion of his life to these ends is a challenge and an inspiration to highest emulation; therefore

Resolved, That the Syracuse Chapter of Sigma Xi record its high esteem and appreciation of these epoch-making discoveries in pure and applied science, and the life of noble devotion thereto;

Resolved further, That with hearty acclaim we join the innumerable company of many lands who gratefully participate in the commemoration of the centenary of his birth and the masterful and enduring achievements of his life.

THE FRANK NELSON COLE PRIZE IN ALGEBRA

At the time of the retirement, in December, 1920, of Professor F. N. Cole as secretary of the American Mathematical Society and editor of its *Bulletin*, a sum of money was collected from members of the Society by a committee, of which Professor H. S. White was chairman, and was presented to Professor Cole in recognition of his distinguished services through a period of twenty-five years. At the next meeting of the Council, Professor Cole donated this fund to the Society, to be used as the Council might think best. The committee, consisting of

Professors Frank Morley (chairman), T. S. Fiske, and H. S. White, which was appointed at that meeting to make recommendations to the council as to the use of the income of this fund, has presented a report recommending that this fund shall be used to endow a prize, to be called the Frank Nelson Cole Prize in Algebra. The recommendations of this committee, which were accepted by the council at its meeting in October, 1922, follow below:

1. The fund shall accumulate until by interest and contributions it reaches the amount of one thousand dollars.

2. At the end of every five years thereafter the Council shall award from the available income not more than two hundred dollars as a prize for the best memoir offered in competition upon some question in the theory of Galois groups, or the theory of numbers, or some other part of algebra.

3. The question or subject for competitive memoirs shall be announced by the Council at least two years in advance of the date for their submission; and the details of the mode of award shall be published at the same time.

4. The prize shall be designated as the Frank Nelson Cole Prize in Algebra. At the time of each award the names of all previous recipients of the prize shall be published in the *Bulletin* of the Society, together with the name of the successful competitor and an abstract of his memoir.

5. The prize may be withheld at the end of any quinquennium if no sufficiently meritorious memoir be submitted; and in such case a double prize may be awarded in the next following quinquennium.

6. These conditions may be altered at any time by a two-thirds vote, in writing, of all members of the Council.

R. G. D. RICHARDSON,
Secretary.

COLLOID SYMPOSIUM AT THE UNIVERSITY OF WISCONSIN

THE most important colloid symposium yet held in America will take place at the University of Wisconsin next June from the twelfth to the fifteenth. On this occasion the university will be host to a group of the leading colloid chemists of the country, who will present papers on their specialties and indulge in unusually full discussion. The university will publish the proceedings in adequate form. The

whole symposium is in honor of Dr. Thé Svedberg, of the University of Upsala, who will give colloid instruction at Madison during the entire second semester and during the summer. Among those who have already announced their intention of presenting papers are Drs. Jacques Loeb, S. E. Sheppard, R. E. Wilson, Jerome Alexander, Martin H. Fischer, J. H. Matthews, Wilder D. Bancroft, Harry N. Holmes, F. E. Bartell, Gortner, Bogue, E. B. Spear, Hugh Taylor, Weiser, Burton and J. A. Wilson. Every one interested in colloids is cordially invited to come. Time will be allowed for sports and social recreation. This symposium is strongly endorsed by the Colloid Committee of the National Research Council.

HARRY N. HOLMES,
Chairman Committee on Colloids
OBERLIN, OHIO

GRANTS FROM THE BACHE FUND

GRANTS from the Bache Fund of the National Academy of Sciences have been made as follows:

\$200 to Professor N. E. Wheeler, Colby College. For a study of the relationship of electrical conduction in concentrated solutions.

\$300 to Professor Gregory P. Baxter, Harvard University. For the determination of the atomic weights of arsenic, titanium and germanium.

\$600 to Dr. W. H. Taliaferro, Johns Hopkins University. For the study of the variability and inheritance of size in different species of *Trypanosoma*.

\$500 to Professor L. L. Woodruff, Yale University. For a study of the significance of endomixis and of fertilization in the life history of Infusoria.

\$250 to Professor Roger Adams, University of Illinois. For the study of the oxides of platinum, palladium and iridium as catalysts.

\$400 to Dr. Kevin Burns, Allegheny Observatory. For the determination of wave lengths of standard lines in the solar spectrum in reference to the cadmium and neon standards.

\$100 to Professor Otto F. Kampmeier, University of Illinois. For a monograph on the evolution and comparative morphology of the lymphatic system of vertebrates.

\$650 to Professor R. R. Renshaw, New York University. For a study of the basis for the